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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,708	625,708 07/24/2003		Donald J. Kyle	6750-174-999	8122
20583	7590	10/17/2005		EXAMINER	
JONES DA 222 EAST 4	_			HABTE, K	AHSAY
NEW YORK		017	ART UNIT	PAPER NUMBER	
	•			1624	

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/625,708	KYLE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kahsay Habte, Ph. D.	1624					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
 Responsive to communication(s) filed on <u>09 September 2005</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 							
Disposition of Claims							
4) Claim(s) 1-207 is/are pending in the application. 4a) Of the above claim(s) 64-87,90-99 and 102-111 is/are withdrawn from consideration. 5) Claim(s) 1-41,61,62,88,89,100,101 and 112-175 is/are allowed. 6) Claim(s) 42,43,45,59 and 63 is/are rejected. 7) Claim(s) 44,46-58,60 and 176-207 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/5/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:						

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DETAILED ACTION

1. Claims 1-207 are pending in this application.

Election/Restriction

2. Applicant's election of Group I, Claims 1-63, 88-89, 100-101 and 112-207 in the reply filed on 9/9/2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 10/05/2005 was filed after the mailing date of the restriction requirement on 8/21/2005. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 42-43, 45, 59 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toldy et al. *Acta Chimica Academiae Scieniarum Hungaricae* (1971),

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69(2), 221-7. Cited reference in German language teaches two compounds of interest: 4-(6-chloro-3-pyridazinyl)-N-(4-ethoxyphenyl)-1-Piperazinecarbothioamide and 4-(6-methoxy-3-pyridazinyl)-N-(4-ethoxyphenyl)-1-Piperazinecarbothioamide that have therapeutic benefit for the treatment of TB (see English abstract of said article). Said compounds are almost the same as applicants when applicant's formula (III) has the following substituents:

 R^1 = CI or OCH₃; n = m = 0; A = NH; and R^4 = phenyl substituted with ethoxy at 4-position.

The only difference between the prior art compounds and applicants' compounds is that the position of the chloro and methoxy substituents on the pyridazinyl ring. The prior art compounds have the chloro and the methoxy substituents at the 4-position of the pyridazinyl ring, but applicants require that the substituents of R¹ to be fixed at the 6-position of the pyridazinyl ring (i.e. R¹ = Cl or OCH₃ are fixed at 6-position). Thus, the only difference between applicants' compounds and the prior art compounds is the position of the chloro and methoxy substituents on the pyridazinyl ring. It is well established that position isomers are prima facie structurally obvious even in the absence of a teaching to modify. The isomer is expected to be preparable by the same method and to have generally the same properties. This expectation is then deemed the motivation for preparing the position isomers. This circumstance has arisen many times. See: Ex parte Englehardt, 208 USPQ 343, 349; In re Mehta, 146 USPQ 284, 287; In re Surrey, 138 USPQ 67; Ex Parte Ullyot, 103 USPQ 185; In re Norris, 84 USPQ

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459; Ex Parte Naito, 168 USPQ 437, 439; Ex parte Allais, 152 USPQ 66; In re Wilder, 166 USPQ 545, 548; Ex parte Henkel, 130 USPQ 474; Ex parte Biel, 124 USPQ 109; In re Petrzilka, 165 USPQ 327; In re Crownse, 150 USPQ 554; In re Fouche, 169 USPQ 431; Ex parte Ruddy, 121 USPQ 427; In re Wiechert, 152 USPQ 249, In re Shetty, 195 USPQ 753.

For example, "Position isomerism has been used as a tool to obtain new and useful drugs" (Englehardt) and "Position isomerism is a fact of close structural similarity" (Mehta, emphasis in the original). See also MPEP 2144.09, second paragraph.

Objection

5. Claims 44, 46-58, 60 and 176-207 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Allowable Subject Matter

6. Claims 1-4, 61-62, 88-89, 100-101 and 112-175 are allowed.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kahsay Habte, Ph. D. whose telephone number is (571) 272-0667. The examiner can normally be reached on M-F (9.00AM- 5:30PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Wilson can be reached at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kahsay Habte, Ph. D. Patent Examiner

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KH October 14, 2005